

JOURNAL SUPPLEMENT

Vol. 35, No. 11
NOVEMBER 1956

INSTITUTION OF PRODUCTION ENGINEERS, 10, CHESTERFIELD ST., LONDON, W.1

FIFTH CONFERENCE ON PROBLEMS OF AIRCRAFT PRODUCTION

(promoted by the Southern Section of the Institution)

at the University of Southampton
(by kind permission of the Vice-Chancellor)

TUESDAY, 8th JANUARY and WEDNESDAY, 9th JANUARY, 1957

THEME : "New Materials — New Methods"

PROGRAMME

- "The Lord Sempill Lecture" by K. Frydag, Director, Henschel U Sohn, Germany.
- "Fatigue of Aircraft" by Major P. L. Teed, F.R.Ae.S., A.R.S.M., M.I.M.M., F.I.M., F.R.S.A.
- "Electronically Controlled Machine Tools in Aircraft Production" by O. S. Puckle, M.B.E., M.I.E.E.
- "Hot Forming of Rolled Sheet" by R. G. Wilkinson, B.Sc.
- "New Applications of Welding Techniques in Aircraft Production" by N. K. Gardner, B.Sc.(Eng.), A.F.R.Ae.S.
- "Chemical Milling" by A. W. Sheppard.

The Conference fees, inclusive of prints of Papers, luncheon, tea and coffee, are:-

Members of the Institution and representatives of Affiliated Firms 40s.
Non-members 50s.

Applications should be made on the form overleaf. As accommodation at the University is limited, tickets will be distributed in strict order of application.

TO: THE SECRETARY,
THE INSTITUTION OF PRODUCTION ENGINEERS,
10, CHESTERFIELD STREET,
LONDON, W.1.

DATE RECEIVED AT HEAD OFFICE

FIFTH AIRCRAFT PRODUCTION CONFERENCE

1. NAME.....
2. GRADE OF MEMBERSHIP.....
3. HONOURS, DEGREES, OTHER QUALIFICATIONS
4. ADDRESS.....
5. NAME OF COMPANY.....
6. POSITION HELD.....

N.B. If more than ONE ticket is required, please supply information 1 to 6 on a separate sheet of paper for each ticket applied for.

Please send me member's ticket(s) at 40s. each.

Please send me non-member's ticket(s) at 50s. each.

For which I enclose my remittance for £.....

Signature.....

Date.....

Please note that cheques, etc., should be made payable to "The Institution of Production Engineers".

THE 1956 SIR ALFRED HERBERT PAPER

The Council of the Institution are pleased to inform members that the 1956 Sir Alfred Herbert Paper will be presented by **Dr. B. V. Bowden, M.A.**, Principal of the Manchester College of Science and Technology. His subject will be :

"The Development of Technological Education in Europe, America and England".

The meeting will take place in the Great Hall, College of Science and Technology, Manchester, on **Wednesday, 14th November, 1956**, commencing at 6.30 p.m. This meeting will be open to members and non-members of the Institution, but admission will be by ticket only, which may be obtained by completing and returning the form overleaf.

VARIETY REDUCTION

SIMPLIFICATION, STANDARDISATION, SPECIALISATION

The Institution of Production Engineers is collaborating with the British Standards Institution in the publication of two Papers :-

1. "Investing in Simplification and Standardisation"; and
2. "Standards, the Standards Engineer and Economic Production".

The author of these Papers is Professor Harold W. Martin, Professor of Management Engineering at Rensselaer Polytechnic Institute, New York. Both Papers were first presented in the U.K. in May of this year, the first at the Production Conference at Olympia, and the second at the Standards Engineers Conference at the British Standards Institution.

At these and subsequent meetings, the presentation of these Papers aroused such interest that it was decided by the Institution and B.S.I. to make them generally available in published form, under the single title "**Variety Reduction — Simplification, Standardisation, Specialisation**". Copies of this publication are now available, price 5s. each (plus 6d. postage) and may be obtained by completing and returning the order form overleaf.

ANNUAL GENERAL MEETING

PRELIMINARY NOTICE

The Annual General Meeting of the Institution will be held at 10 Chesterfield Street, London, W.1, at 2 p.m. on Thursday, 31st January, 1957.

To: THE SECRETARY,
THE INSTITUTION OF PRODUCTION ENGINEERS,
10 CHESTERFIELD STREET,
LONDON, W.1.

THE 1956 SIR ALFRED HERBERT PAPER

Please send me tickets of admission to the above meeting.

Block letters NAME.....

PLEASE ADDRESS.....

ORDER FORM

TO : Publications Dept., Institution of Production Engineers,
10 Chesterfield Street, London, W.1

OR

Publications Dept., British Standards Institution, 2 Park Street, London, W.1.

"VARIETY REDUCTION BY SIMPLIFICATION, STANDARDISATION & SPECIALISATION"

By Professor Harold W. Martin

Please send me.....copy(ies) of the above publication at 5/- per copy (plus 6d. postage),

for which I enclose £.....

BLOCK NAME.....

LETTERS ADDRESS.....

PLEASE

IMPORTANT If ordering from B.S.I., cheques should be made payable to "British Standards Institution". If ordering from I.Prod.E., cheques should be made payable to "The Institution of Production Engineers".

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REGIONAL MEETINGS

EASTERN REGION

7.30 p.m. November 9th

The Diocesan Hall, Tower Street, Ipswich.

"Automation — Does It Concern You?" by Sir Walter Puckey, M.I.Prod.E., F.I.L.A.

SOUTH EASTERN REGION

December 4th

Dinner and Dance at the Savoy Hotel.

SECTION MEETINGS

Visitors Tickets may be obtained from Section Honorary Secretaries.

NOVEMBER, 1956

EAST AND WEST RIDINGS REGION

- Doncaster** 7 p.m. November 13th
The Danum Hotel, Doncaster.
"Copying Devices and Tracer Controlled Machine Tools" by H. C. Town, M.I.Mech.E., M.I.Prod.E., F.R.S.A.
- Halifax** 7.15 p.m. November 20th
The George Hotel, Huddersfield.
"Recent Developments in High Production Foundries" by J. D. Berry, M.I.B.F., A.M.I.Prod.E.
- Halifax Graduate** 7.30 p.m. November 13th
The Huddersfield Technical College, Huddersfield.
Die Casting — "The Production of Certified Zinc Alloy Die Castings" by R. Parish, A.M.I.Prod.E., A.M.I.L.A.
- Halifax Graduate** 7 p.m. November 14th
Works Visit to Messrs. Tetley, The Brewery, Leeds.
- Sheffield** 6.30 p.m. November 12th
The Grand Hotel, Sheffield.
"Education and Training in Industry" by Dr. W. D. Hargreaves, M.Sc., Ph.D.
- Sheffield Graduate** 6.30 p.m. November 19th
Gummers Ltd., Rotherham.
"Corrosion Prevention" by Maxwell Lewis, M.A., B.Sc., M.S.A.E. This is a practical lecture showing the processes in working conditions.
- Yorkshire** 7 p.m. November 12th
The Hotel Metropole, Leeds.
"The Structure of Production Management" by M. Seaman, M.Sc., M.I.Mech.E., M.I.Prod.E.

EASTERN REGION

- Norwich** 7.30 p.m. November 21st
The Assembly House, Norwich.
"Aspects of Practical Training for Sandwich Courses" by V. Crowther, M.I.Prod.E., Section Chairman. This lecture will be illustrated.

MIDLANDS REGION

- Birmingham** 7 p.m. November 21st
The James Watt Memorial Institute, Great Charles Street, Birmingham.
"The Use of Isotopes in Industry" by Dr. H. Seligman, Ph.D. It is hoped that an interesting film on the subject may also be shown.
- Birmingham Graduate** 7 p.m. November 8th
Corn Exchange, Kidderminster (adjacent to Town Hall). Address by B. G. L. Jackman, M.I.Prod.E. (Midland Region Chairman), followed by a film "Volkswagen Story" to conclude by 9 p.m.
- Birmingham Graduate** 7 p.m. November 13th
The James Watt Memorial Institute, Great Charles Street, Birmingham.
"Pattern Making" by a representative of Wright and Platt Ltd.

Birmingham Graduate 10 a.m. November 17th
Visit to Midland Red, 1 Vernon Road, Edgbaston, Birmingham, 16. Meet at works at 10 a.m.

Coventry 7 p.m. November 19th
The Craven Arms, High Street, Coventry.
"Modern Contour Turning" — colour film — followed by a Paper. Programme arranged by Vaughan Associates with Paper given by either a technician from Messrs. George Fischer or Vaughan Associates Ltd.

Coventry Graduate 7.15 p.m. November 1st
The Craven Arms, High Street, Coventry.
"Factory Layout and Planning with Reference to the Production of Jaguar Cars" by J. Silver, M.I.Prod.E., A.I.L.A.

Shrewsbury 7.30 p.m. November 16th
Annual Dinner-Dance, at Morris's Cafe, Shrewsbury.

Shrewsbury 7.30 p.m. November 28th
The Technical College, Oakengates, Shrewsbury.
"Material Utilisation" by R. M. Evans, M.I.Prod.E.

Wolverhampton 7.15 p.m. November 7th
The County Technical College, Stafford
"Management and Organisation" by E. L. G. Robbins, B.Sc.(Eng.), M.I.Mech.E., A.C.G.I.

Wolverhampton Graduate 7.30 p.m. November 21st
The Wolverhampton and Staffordshire Technical College, Wulfruna Street, Wolverhampton.
"Designing for Production" by G. S. Rowland.

Worcester 7.30 p.m. November 28th
The Cadena Cafe, Worcester.
"Process Development of Shell Moulding" by J. Fallows.

NORTH MIDLAND REGION

Derby 7 p.m. November 21st
The Irongates Hotel, Irongate, Derby.
"Drop Forgings in Alloy Steels" by E. H. Henderson (illustrated by a film).

Leicester 7 p.m. November 15th
The Windsor Room, Bell Hotel, Leicester.
"The Education of the Production Engineer in Industrial Engineering" by J. France, M.I.Mech.E., M.I.Prod.E., M.I.L.A. Joint meeting with the Institute of Works Managers.

Leicester 7 p.m. for 7.30 p.m. November 8th
The Kings Hall, Grand Hotel, Leicester.
Section Annual Dinner.

Nottingham 7 p.m. November 7th
The Victoria Station Hotel, Milton Street, Nottingham.
"Spring Design and Manufacture" by J. A. Roberts, M.Inst.B.E. (illustrated by slides).

NORTH WESTERN REGION

Liverpool 7.30 p.m. November 7th
Radiant House, Bold Street, Liverpool.
"The Institution and You" by J. E. Hill, M.I.Mech.E., M.I.Prod.E. This will be a joint meeting with the Liverpool Graduate Section.

Liverpool Graduate 7.30 p.m. November 7th
See above.

Manchester 7.15 p.m. November 26th
The Reynolds Hall, Manchester College of Technology, Manchester.
"Modern Forging Practice" by H. Hayes.

Manchester Graduate 7.15 p.m. November 13th
Room C3, Reynolds Hall, College of Technology, Sackville Street, Manchester.
"Safety and Health in Changing Industry" by E. Waller.

Preston 7.15 p.m. November 7th
The Harris Institute, Corporation Street, Preston.
"Special Purpose Unit Head Machines" by T. W. Elkington, M.I.Prod.E.

Stoke-on-Trent 7.30 p.m. November 26th
The Grand Hotel, Hanley, Stoke-on-Trent.
"Cutting Tools—Application and Research" by M. O. Short, B.Sc.(Eng.), Grad.I.Prod.E.

NORTHERN REGION

North Eastern 7 p.m. November 19th
The Neville Hall, Newcastle-on-Tyne.
"The Manufacture and Some Applications of Seamless Metallic Tubes" by C. Cashmore, A.I.M.

North Eastern Graduate 10 a.m. November 10th
Works Visit to British Paints Ltd., Britannic Works, Portland Road, Newcastle. Meet at Works main entrance at 10 a.m.

Tees-Side 7 p.m. November 15th
Imperial Hotel, Darlington.
"Some Problems Associated with the Selection of Machine Tools for Heavy Engineering Production" by J. Henderson, M.I.Prod.E.

NORTHERN IRELAND REGION

Northern Ireland 7.30 p.m. November 22nd
The Kensington Hotel, College Square East, Belfast.
"Incentive Schemes for Maintenance" by G. W. Williamson, O.B.E., M.C., M.I.C.E., M.I.M.E., M.I.E.E., M.I.Prod.E., F.R.Ae.S.

SOUTHERN REGION

Oxford 7.30 p.m. November 27th
Ye Olde Bull's Head, Aylesbury.
"Making Jigs, Tools and Moulds in Epoxide Plastics" by P. G. Pentz, B.Sc.

Southern 7.15 p.m. November 22nd
The Polygon Hotel, Southampton.
"Production of Agricultural Implements" by D. M. MacDonell.

SOUTH EASTERN REGION

London 7 p.m. November 15th
The Royal Empire Society (Craven Street entrance), Northumberland Avenue, Strand, London, W.C.2.
"Automation for Batch Production: the role of Work Study" by Ian Nickols, A.M.I.Prod.E.

London Graduate 7.15 p.m. November 20th
The Institution of Production Engineers, 10 Chesterfield Street, London, W.1.
"Induction, Resistance and Electro-Gas Heating for Soldering and Brazing" by C. E. Eadon-Clarke, Ass.I.E.E.

Luton 7.30 p.m. November 27th
The Pink Room, Messrs. W. H. Allen, Sons & Co. Ltd., Bedford.
"Transfer Machines."

Luton Graduate 7.30 p.m. November 13th
The Small Assembly Room, Town Hall, Luton, Beds.
"Optical Methods of Tooling" by B. S. Pearn.

Rochester 7.30 p.m. November 8th
The Assembly Room, Sun Hotel, High Street, Chatham.
"The Application of Hydraulic Mechanisms to Automatic Processes" by I. McNeil, M.A.(Cantab.), Assoc.I.Mech.E.

Rochester Graduate 7.30 p.m. November 22nd
The Assembly Room, Sun Hotel, High Street, Chatham.
"Metal Spraying" by H. J. Plaster.

South Essex 7.30 p.m. November 7th
The Ilford Club, 21a Balfour Road, Ilford.
"New Metals — with Specific Reference to Titanium, Zirconium, Molybdenum, etc." by Dr. T. W. Farthing.

SCOTTISH REGION

Dundee 7.30 p.m. November 30th
The Technical College Hall, Bell Street, Dundee.
"The Production of the Voith Schneider Propeller with Particular Reference to its Manufacture" by A. Betts Brown, M.I.Mech.E., M.I.Prod.E.

Edinburgh 7.30 p.m. November 14th
The North British Station Hotel, Princes Street, Edinburgh.
"Higher Management's Approach to Work Study" by J. E. Currie.

Glasgow 7.30 p.m. November 15th
The Institution of Engineers and Shipbuilders, 39 Elmbank Crescent, Glasgow, C.2.
"Electro-Spark Machining" by G. Fefer, A.I.Prod.E.

SOUTH WESTERN REGION

Cornwall 7.15 p.m. November 15th
The Camborne School of Mines, Camborne, Cornwall.
"Modern Jig Boring Technique" by R. H. Reddy. The lecture will be illustrated by sound films and followed by a discussion.

Gloucester 7.30 p.m. November 9th
The Technical College, Brunswick Road, Gloucester.
"Some Aspects of Protection Processes" by R. Gillanders.

Gloucester 7.45 p.m. November 22nd
The Cheltenham Motor Club, Priory Lawn, Cheltenham.
"Modern Methods of Watch Production" by Major R. A. Fell, M.A., F.B.H.I. Joint meeting with the British Horological Institute (Cheltenham District Branch).

Western 7.15 p.m. November 28th
The Small Lecture Theatre, University Engineering Laboratories, University Walk, Bristol, 8.
"Some Engineering Problems Associated with the Experimental Atomic Reactor" by W. F. Wood.

WELSH REGION

South Wales 7 p.m. November 23rd
The Institute of Engineers, Park Place, Cardiff.

"The Training of Production Engineers" by Dr. W. A. J. Chapman, M.Sc., M.I.Mech.E., M.I.Prod.E., M.I.I.A.

West Wales 7.30 p.m. November 16th
The Central Library, Alexandra Road, Swansea.
"Computer Controlled Machine Tools" by M. H. Johnson. This lecture will be illustrated by films.

1st - 8th DECEMBER, 1956

EAST AND WEST RIDINGS REGION

Halifax Graduate 7.30 p.m. December 5th
The Huddersfield Technical College, Huddersfield.
Management Organisation — "Organisation Requirements for the Production of Modern Agricultural Machinery" by a representative of International Harvesters.

EASTERN REGION

Eastern Counties 7.30 p.m. December 7th
The Diocesan Hall, Ipswich.
"The Use of Punched Card Methods for Production Control" by J. C. Davies, A.C.I.S., A.C.C.A.

MIDLANDS REGION

Birmingham December 8th
Buffet Dance at the Botanical Gardens.

Coventry Graduate 7.15 p.m. December 4th
The Craven Arms, High Street, Coventry.
Film Evening—"Chips"; "Exploring with a Microtiter";
and "Planned for the Purpose".

NORTH MIDLAND REGION

Nottingham 7 p.m. December 5th
The Victoria Station Hotel, Milton Street, Nottingham.
"Factory Layout Fundamentals for a Small Factory" by
Hal Gutteridge, M.Cons.E., M.I.Mech.E., M.S.E. (illustrated
by slides).

Peterborough 7.30 p.m. December 6th
The White Lion Hotel, Church Street, Peterborough.
"Nuclear Power and its Effect on the Production Engineer"
by I. Munro, B.Sc.

NORTH WESTERN REGION

Liverpool 7.30 p.m. December 5th
Liverpool Central Libraries, William Brown Street,
Liverpool.
"The Practical Application of Production Engineering
Research" by D. F. Galloway, B.Sc.(Hons.), M.I.Mech.E.,
M.I.Prod.E., A.M.I.E.E. Joint meeting with Liverpool
Public Libraries.

NORTHERN REGION

North Eastern Graduate 7 p.m. December 7th
The Road Way House, Oxford Street, Newcastle.
"Some Problems in the Mass Production of Glass Ware."
by J. F. Stirling, B.Sc., F.Inst.P.

SOUTHERN REGION

Reading 7.30 p.m. December 6th
The Great Western Hotel, Reading.
"The Properties of Pure Molybdenum Disulphide and its
Application to Production Engineering" by H. Peter Jost,
A.M.I.Mech.E., M.I.Prod.E., Mem.A.S.M.E.

Southern 7.15 p.m. December 5th
Christchurch Town Hall.
"The Development and Achievement of the Vickers
Viscount" by A. H. C. Greenwood. In conjunction with the
local branch of the Royal Aeronautical Society.

SOUTH EASTERN REGION

London 7 p.m. December 6th
Powers-Samas Accounting Machines Ltd., Aurelia Road,
Croydon, Surrey.
"Electronics as an Aid to Production with Special
Reference to the Aircraft Industry" by T. A. Waite,
B.Sc., A.M.I.E.E.

London Graduate 2 p.m. December 6th
Visit to The Royal Mint, London, E.C.3.

Luton Graduate 7.15 p.m. December 5th
Works Visit to A. C. Delco Ltd., Dunstable, Beds. Meet
at the factory gates.

South Essex 7.30 p.m. December 5th
The Mid-Essex Technical College, Chelmsford.
"Future Trends in Technical Education" by F. Bray.

SOUTH WESTERN REGION

Gloucester 7.30 p.m. December 7th
The Wheatstone Hall, Brunswick Road, Gloucester.
Film Evening.

Western 7.15 p.m. December 5th
The Large Lecture Theatre, University Engineering
Laboratories, University Walk, Bristol, 8.
"Problems and Prospects of British Aviation" by P. G.
Masefield, M.A., F.R.Ae.S., M.Inst.T. Joint meeting with
the Western Branch of the Royal Aeronautical Society.

PRODUCTION APPOINTMENTS

BULLETIN No. 38
NOVEMBER 1956

The last date for receiving material for insertion in the following month's bulletin is the 20th of each month.

The fee for insertion of particulars regarding each appointment is £3 3s. (up to 100 words), and over 100 words £5 5s. A standard charge of £1 1s. per insertion is made to firms affiliated to the Institution, Technical Colleges, Universities and similar organisations.

Advertisers are advised that better response is likely if, in addition to essential qualifications, the following information is given:—

(a) Location of appointment; (b) Status in the organisation and scope of promotion; (c) Salary range and age range. Advertisers are asked to advise the Institution when appointments are filled. The Institution reserves the right to refuse or withdraw any announcement and also to make any alteration in the wording to ensure conformity with the Institution standards. Members interested in the following appointments should make application in accordance with the terms of notice. No correspondence can be undertaken by the Secretary other than the forwarding of replies to Box Nos.

Education and Technical Officer required by the Institution of Production Engineers. Desirable qualifications are an engaging personality, industrial experience, educational experience and a university degree in engineering or science. Commencing salary will be not less than £1,500 per annum. Contributory pension scheme. Applications should be addressed in confidence to: The Secretary, The Institution of Production Engineers, 10 Chesterfield Street, London, W.1.

Production Engineer required by factory in Essex with 150 employees producing metal boxes and caps, for work on tool development with a view to taking charge of production. The applicant should be 35 years or more, and have a good technical background, with experience and knowledge of current practice in this industry. The appointment carries superannuation, life assurance, profits bonus and a good commencing salary, with future prospects. Applications, giving full details of training, experience and salary required, should be addressed to: Box No. 1423, I.Prod.E., 10 Chesterfield Street, London, W.1.

Work Study Engineer required by Company in the Trafford Park area, to create and establish Works Study and Incentive Methods Section in their engineering department. This position offers scope for a person willing to accept responsibility. Salary according to qualifications. Give full details of previous experience and age. All replies treated in the strictest confidence. Box No. 1434, I.Prod.E., 10 Chesterfield Street, London, W.1.

General Manager. Progressive organisation in Midlands with wide variety of interests in the engineering industry seeks versatile General Manager for newly created oil burning equipment manufacturing division who must be capable of controlling all aspects, with special emphasis on sales. A substantial salary will be paid to the right man, whose age preferably should be between 35 and 45 years. Please reply to: Box No. 1440, I.Prod.E., 10 Chesterfield Street, London, W.1.

Qualified Mechanical Engineer required as Chief Inspector by light precision mechanical engineering concern. Practical

experience of use of machine tools for mass production of small piece parts essential, also strong handling of inspection curriculum through own staff. Please write, giving full particulars of qualifications, experience and present salary, and whether prepared to move to another district to: Box No. 836, Dorland Advertising Limited, 18-20 Regent Street, London, S.W.1.

Production Development Engineer for a unit of The Glacier Metal Co., Europe's largest producer of plain bearings. Job involves improvement of old, and development of new methods for manufacture of plain bearings on presses and high speed automatic special purpose hydraulically and electrically operated machines, designed and built by this Company. Age 25 to 28 years. Engineering apprenticeship or similar experience, O.N.C. or better. We expect the man appointed to grow out of this job within three years and be ready for a bigger one within the Company. Commencing salary £14 10s. 0d.-£15 10s. 0d. per week. Full details of age, experience, etc., to: Personnel Officer, (Ref. 546), The Glacier Metal Co. Limited, Ealing Road, Wembley, Middlesex.

Leading Management Consultants have vacancies for men of suitable qualifications, experience and personal qualities, who are attracted to a career in this confidential advisory service to management. Candidates for appointment initially in the production management function should have a recognised engineering qualification, supported by responsible experience in production engineering, work study, or works management in manufacturing industries, with understanding of modern methods of management control. Ages 33-48. Appointment involves travel. Substantial salary and out-of-pocket expenses from engagement, with other benefits (including pension scheme) providing attractive future prospects for successful men. Write in confidence, giving outline of career; detailed application form will be sent to selected applicants. Stevenson, Jordan & Harrison, Limited, 30 Windsor House, 46 Victoria Street, London, S.W.1.

Methods Research Engineer required by firm in South-east England engaged on light/medium general engineering, for work involving investigation and recommendations for cost reduction on established products with particular emphasis on fabrication. Applications are invited from men with initiative aged 30-40 with sound engineering background and H.N.C. or equivalent qualification, giving details of previous experience and salary required. Box No. 1449, I.Prod.E., 10 Chesterfield Street, London, W.1.

Production Controller is required by Brush Electrical Engineering Company Limited, Loughborough, Leics., for the feeder division which comprises a large machine shop and fabricating department. The man appointed will be responsible to the Divisional Works Manager for the material control, planning and progressing of all work passing through this important division of the factory. Candidates who should be in the age range 30-45 must have previous experience of production control preferably on machining operations and possess the necessary initiative and leadership for this responsible post. Conditions of employment include staff bonus and non-contributory staff assurance.

Production Development Engineer wanted by a progressive light engineering firm in West Bromwich to act as personal assistant to Works Director. Applicants should be between 30 and 40 years of age and possess a thorough knowledge of modern production methods and work study procedure. A degree in engineering an advantage. There are excellent prospects for the successful applicant. State in detail experience and qualifications, also age, salary required, etc., to: The Secretary, Box No. 1450, I.Prod.E., 10 Chesterfield Street, London, W.1.

Chief Production Engineer required by large well-known and progressive electronic manufacturer in the London area to be responsible to the General Works Manager for technical methods, work study and project engineering.

This is a senior appointment with excellent prospects and only men of first-class ability and qualifications need apply. Our own staff are aware of the vacancy. Applications in strict confidence with full details and salary required to: Box II. 773, c/o 191 Gresham House, London, E.C.2.

General Manager of Director status for a large factory producing domestic electrical and other products. The job involves direct responsibility for all manufacture and functional-responsibility for works and other staff personnel on the site. Essential qualifications include good general education, senior executive experience in the manufacture of engineering products in quantity and a natural bent towards the development of welfare, social and training facilities at all levels. A starting salary around £3,000 per annum, plus a house at nominal rent, is envisaged. Replies will be received in strict confidence by Managing Director. Box No. 1451, I.Prod.E., 10 Chesterfield Street, London, W.1.

If you are a Man:- (a) between approximately 26 and 33 years old; (b) with drive, initiative, "character", and the capacity to "get on" with people; (c) possessing a university degree or a diploma in Mechanical or Electrical Engineering; (d) determined to make a remunerative career in management of a division of works making engineering products; (e) prepared to undertake training and to work hard to achieve your ambition — then you cannot do better than send details about yourself to us, as we are looking for men of your calibre. We are well-known, long established, substantial and expanding. Please write in confidence (all letters will be acknowledged) to: Box No. 1452, I.Prod.E., 10 Chesterfield Street, London, W.1.

Senior Design Draughtsman required by medium-sized Company in pleasant West Country town, engaged in the manufacture of precision assemblies for the automotive industry. Essential qualifications: H.N.C. (Mechanical Engineering); extensive design experience and ability to formulate ideas in connection with Company products in this field involving turbine units, gear boxes and pumps. Assistance with accommodation and removal expenses, together with a generous salary and eventual pension rights are offered. Write full details of qualifications, career to date, present salary, to: Managing Director, Box No. 1453, I.Prod.E., 10 Chesterfield Street, London, W.1.

Opportunities in Production. A large company, still expanding, offers well paid production posts to: Production Engineers, Process Planning Engineers, Jig and Tool Draughtsmen, at Brentford and Feltham (Middlesex). This company is internationally known for its high standard of precision electro-mechanical engineering connected with automatic controls and navigational instruments for ships, aircraft and guided missiles. You are invited to write, in absolute confidence, to: Personnel Manager, Sperry Gyroscope Co. Ltd., Great West Road, Brentford, Middlesex, giving brief details of your training and experience.

Plant Layout Draughtsman required for responsible work in connection with the setting up of a new factory. Applicants must be fully experienced in the layout of light precision machine, assembly and allied finishing shops, and should be within the age range of 28-40 years. Although technical qualifications to at least O.N.C. are preferred, selection will be based mainly on the candidate's appropriate practical experience. Write, giving brief details of training and experience to: The Personnel Manager, Sperry Gyroscope Co. Ltd., Great West Road, Brentford, Middlesex.

Time Study Engineer. Attractive vacancy for experienced Time Study Engineer with drive and good personality arises in specialist woodworking Company in Hatfield. This post entails full responsibility for work measurement, incentives application and a programme of methods development under consultants' guidance. Previous experience in woodworking desirable but not essential. Apply, giving past experience and salary requirements to: The Managing Director, Massils of Marshmoor, Welham Green, Hatfield, Hertfordshire.

Junior Engineer. Johnson & Johnson (Great Britain) Limited have a vacancy in their Portsmouth plant for a Junior Engineer. This position offers real scope for a man wishing to enter an unusual and expanding branch of industry and capable of profiting by the Company's policy of promotion from within. Prospects of advancement are not necessarily confined to the engineering division. A degree in Engineering, or its equivalent is essential. Applications, detailing age, education, previous experience and when available, should be addressed to: Personnel Officer, Johnson & Johnson (Great Britain) Limited, Southampton Road, Cosham, Portsmouth.

Work Study Engineers and Time Study Engineers. Henry Wiggin and Company Limited, manufacturers of nickel alloys invite applications from Work Study Engineers and Time Study Engineers of sound education and practical experience as follows: (1) Work Study Engineers: Not less than five years experience of methods improvement, and the initiation and introduction of practical systems of payment by results. (2) Time Study Engineers: A thorough training in the basic principles of time study and a desire to gain fuller experience in order to become Work Study Engineers. In addition to having the necessary ability, applicants must possess a personality suitable for this type of work. Appointments to be made at the Birmingham, Hereford and Glasgow Works of the Company. Salaries will be commensurate with the experience and high standards required. A non-contributory pension scheme is in operation. Apply in writing, giving full details of experience, employers, education and qualifications to: General Production Manager, Henry Wiggin & Company Limited, Wiggins Street, Birmingham, 16.

Production Engineer required for senior appointment with motor car manufacturers of international repute, to be responsible for controlling production planning, machine tool specification, jig, tool and gauge design, and plant layout. Applicants must prove successful records in the above capacities and should not be more than 45 years of age. Only those with experience of modern machine techniques, assembly and layout, and of managing a large staff should apply. The position is superannuated, carries substantial remuneration and presents first-class opportunities for advancement. Applications, which will be treated in strict confidence, should contain full particulars and be addressed to: Box No. 1454, I.Prod.E., 10 Chesterfield Street, London, W.1.

Planning Engineers. Hunting Percival Aircraft Limited require Planning Engineers. Candidates should have previous experience and must be familiar with basic processes in the aircraft industry. Technical education to O.N.C. or H.N.C. standard desirable. Staff pension and life assurance scheme in operation, good welfare facilities. Applications, giving full details of qualifications, experience, age, salary required and quoting ref. MF/PLA/IP should be addressed to: The Personnel Manager, Hunting Percival Aircraft Limited, Luton Airport, Beds.

Production Engineers. A large expanding Company in the Sheffield area has openings with unlimited opportunities for three Production Engineers. Applicants must be capable of assuming full responsibility, after training, for incentives, methods and materials handling, in several manufacturing departments. Attractive starting salaries commensurate with age, qualifications and experience, will be reviewed annually. Applications will be treated in strict confidence and should state age, qualifications and industrial experience to date. Please reply to: General Manager, Box No. 1455, I.Prod.E., 10 Chesterfield Street, London, W.1.

Assistant to Chief Work Study Engineer required. Men having a sound experience of all aspects of work study who, preferably, have held a position of similar status, are invited to apply. Prospects of progressive promotion open to successful applicant. Commencing salary commensurate with ability and experience. Apply: Personnel Manager, The Rheostatic Company Limited, Slough, Bucks.

Production Engineers. Rotol Limited, invite applications from Production Engineers, H.N.C. or equivalent, for a recently formed production development section. Applicants should have a sound drawing office background with aircraft experience an advantage, and be conversant with latest production methods. Ability to work closely with design and planning sections essential. Good salary and staff pension scheme. Excellent working conditions and welfare facilities. Applications, giving age, experience and qualifications to be addressed to: The Personnel Manager, Rotol Limited, Cheltenham Road, Gloucester, who will arrange interviews with the appropriate senior executive.

Work Study Officer to join the staff of a growing industrial engineering department in a progressive Company in the Manchester area manufacturing toilet soap, toothpaste and other toilet articles. A good practical experience and knowledge of method study, work measurement and ancillary subjects of greater importance than knowledge of the particular industry. Should be capable of working with the minimum of supervision and be at least of O.N.C. level. Persons of the right mental approach but without experience will be considered as trainees. Apply, stating salary, age and experience to: Personnel Manager, Box No. 1456, I.Prod.E., 10 Chesterfield Street, London, W.1.

Works Manager required for well-known precision engineering Company. Must have good practical background and possess administrative ability. Progressive position with possibility of Directorship later for really capable man. London area. Salary £2,000 to £2,500 with prospects. Reply: Box No. 1457, I.Prod.E., 10 Chesterfield Street, London, W.1.

Works Manager. Management Selection Limited have been retained to advise on the selection of a Works Manager for a high precision engineering Company founded eight years ago by two engineers now employing 180 and still growing and situated in Home Counties. Duties include supervision of the factory and all production planning and progress work for standard and high speed American and Swiss automatic machines and other general machine tools and for assembly. Candidates must have experience of similar work at a responsible level in light engineering, preferably with direct supervision of production and with an apprenticeship. Age 33-40. Salary about £1,500, plus bonus. No information will be passed to our client, without candidate's permission at interview. Please write, in confidence, giving brief details to: R. A. Denerley (X176), Management Selection Limited, 8 Clarges Street, London, W.1.

Product Designer Draughtsmen required by Charles Colston Limited to work on light domestic appliances at factory of their Northern Company. Five-day week. Pension scheme. Salary according to qualifications and experience. Housing available. Write in confidence to: General Manager, Tallent (Aycliffe) Limited, Aycliffe Trading Estate, near Darlington, County Durham.

Machine Tool Investigation Engineer. Applications are invited for a senior position of Machine Tool Investigation Engineer with the Guided Weapons Division of The English Electric Company Ltd., at Stevenage, Herts. The responsibilities will be to advise on the selection of suitable machine tools related to small batch manufacture, including extremely high precision, and to carry out investigations into achieving maximum effective plant utilisation. Applicants must have had many years experience of a wide range of machine tools and a basic appreciation of machine tool design. Applications to: Dept. C.P.S., 336-7 Strand, London, W.C.2, quoting ref. PE 1317A.

Methods Engineer wanted by well-established electronic component manufacturing Company in London (Enfield) area. Some previous experience in work study and production engineering generally is essential, together with H.N.C. standard in production or in mechanical engineering. Really good prospects for young man with ability. Depending on experience, maximum starting salary £750 per annum

(plus production bonus). Reply to: Box No. 1458, I.Prod.E., 10 Chesterfield Street, London, W.1, giving details of age, experience, qualifications, present work and salary.

Production Manager. Management Selection Limited have been retained to advise on the selection of a Production Manager for a leading firm of precision engineers. He will be directly responsible to the Managing Director for all aspects of production and will have a major contribution to make towards further increasing an already substantial turnover. There are prospects of additional responsibilities for a man achieving success in this field. Candidates should be qualified engineers with first-class practical experience of production engineering and production control in precision engineering, preferably in machine tools. Starting salary up to £2,000, with pension scheme, removal expenses paid and housing assistance. Please send brief details in confidence to: R. A. Denerley, Management Selection Ltd. (H 174), 8 Clarges Street, London, W.1. No information will be passed to our clients without candidate's permission at interview.

Managing Director. Management Selection Limited have been retained to advise on the selection of a Managing Director of a private Company (Engineering) in Home Counties, north of London employing about 300. Present Managing Director retires next year and initial period of appointment would be as General Manager. Production is medium batch involving assembly of small precision units, using metal and plastic moving parts. The appointment carries full responsibility to a non-resident Board for the development of a recently reorganised Company in a most promising field. Candidates should have had similar production experience in light mechanical or electrical engineering with some responsibility of a wider commercial nature or of general management. Apprenticeship essential: a professional qualification in mechanical engineering desirable. Preferred age 35/45. Basic starting salary £2,000-£2,500. No information will be passed to our clients, without permission at interview. Applications, with brief details, in strict confidence to: H. E. Roff (HH 164), Management Selection Limited, 8 Clarges Street, London, W.1.

Information Officer. British Institute of Management requires an Information Officer to assist in the field of Production Management. Applicants, who should preferably be between 25 and 35, should have at least graduate membership of a senior engineering institution, a knowledge of the principles and practice of production management, and an intelligent interest in the general field of management, a good critical faculty, and the ability to write for publication. Starting salary £700 to £800 per annum. The position offers a broadening experience to a young man who might contemplate returning to industry in about three years. Further details from: The Director, 8 Hill Street, London, W.1, (ref: PHC).

Production & Methods Engineers: Time Study Engineers. Production & Methods Engineers are required by Rank Precision Industries Ltd., for senior appointments in their group factories; also, Time Study Engineers as members of their Cost Reduction Team. Effort-rating, motion study and some engineering experience essential. Group factories are situated at London, Leicester, Leeds and Mitcheldean (Glos.). Please apply giving details of experience, age and salary required to: The Group Production Engineer, Rank Precision Industries Ltd., Woodger Road, London, W.12.

Senior Staff Appointment. The English subsidiary of an American Corporation of Industrial Engineers, engaged in the modernisation programmes of large manufacturing and industrial concerns in England and on the Continent, require a Sales Technical Engineer with knowledge of production methods. For the right man, there are definite prospects of advancement to an appointment as Assistant to Managing Director. The starting salary will be liberal, with bonus opportunity. This is a permanent position, based in London, and the accepted applicant will work under the direct supervision of the Managing Director and his American Associates. Age range, 30/40. Write, in first instance, giving full particulars to: Box No. 1459, I.Prod.E., 10 Chesterfield Street, London, W.1.

EDUCATIONAL APPOINTMENTS

Wolverhampton & Staffordshire College of Technology. The Headship of Department of Production Engineering and Management (Grade III) will fall vacant on December 31st, 1956. Applications are invited for the post. Candidates must have — (a) Sound academic training in engineering to degree level with membership of a professional engineering Institution. (b) Industrial experience on the manufacturing or managerial side. (c) Experience of teaching in a technical college or university. (d) Ability to conduct or supervise research in some aspect of production. Salary scale in accordance with Burnham Report £1,600 x £50-£1,750. Form of application and full particulars of post from: G. W. R. Lines, Clerk to the Governors, Education Offices, Wolverhampton.

Northampton Polytechnic, London, E.C.1.

Grade B Lecturer required for full-time permanent, pensionable staff to instruct students in instrument engineering. Candidates should possess B.Sc., H.N.C. or equivalent and have wide industrial experience in instrument making. A knowledge of instrumentation would be an advantage. Salary on Burnham Technical Scale: £686 to £1,073 plus £75 for degree or equivalent, and £25 for University training. Allowance made for industrial or teaching experience in determining commencing salary. Excellent opportunity in expanding department for entering the technical teaching profession. Apply for form and particulars to: Secretary, Northampton Polytechnic, St. John Street, London, E.C.1.

Swansea Technical College.

Appointment of Head (Grade II) of The Production Engineering Department. Applications are invited from suitably qualified and experienced men for the above-named newly created post; the appointment to commence on 1st January, 1957, or as soon thereafter as possible. Candidates must possess a good Honours degree in engineering and be corporate members of the Institution of Production Engineers; have had practical experience in this form of engineering and appropriate teaching and/or organising experience. Experience of work study will be an added qualification. Salary - Burnham Technical Scale for male heads of departments (Grade II), £1,400 x £50-£1,600. Application forms, which must be completed and returned by 16th November, 1956, and further particulars, obtainable on receipt of stamped addressed foolscap envelope from L. J. Drew, Director of Education, Education Department, The Guildhall, Swansea.

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